

# Running hybrid code using MVAPICH on ...

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Oct 18, 2007 If anyone is using rtjones to run hybrid codes, please take note of this email sent to the tech-talk list:

From Henry:

I finally figured out how to run a hybrid code using MVAPICH on Rtjones.

Here is an example for running an 8x2 (8 MPIs and 2 OMPs) case:

```
qsub -l walltime=0:30:00,select=2:mpiprocs=4  
mpirun_rsh -np 8 -hostfile $PBS_NODEFILE VIADEV_USE_AFFINITY=0 \  
OMP_NUM_THREADS=2 ./a.out
```

A couple of notes:

- VIADEV\_USE\_AFFINITY=0 is needed for disabling pinning
- The environment variables can be specified to the mpirun\_rsh command line as shown. 'mpiexec' won't work in this way.

You would have to put them into .cshrc. Tags: rtjones, hybrid, openmp, mpi, mvapich